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(54) **GERMINATION ACTIVATED RED *GANODERMA LUCIDUM* SPORES AND METHOD FOR PRODUCING THE SAME**

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(57) **ABSTRACT**

The present invention describes a method for germination activating spores of red Ganoderma lucidum to produce bioactive substances which has medicinal effects on patients with immunological disorders, cancer, AIDS, hepatitis, diabetes, and cardiovascular diseases, and can prevent or inhibit free radical oxidation and hepatotoxic effects. The method can be subdivided into three stages. At the first stage, a germination activation method is introduced which includes soaking the spores in a solution to induce germination, and placing the germination treated spores in a culture box to induce the synthesis of bioactive substances and softening of the cell walls of the spores. At the second stage, sporoderm-broken ganoderma spores are collected by treating the epispores with cell wall breaking enzymes and/or mechanical force. At the last stage, the bioactive substances are extracted from the sporoderm-broken spores by drying at low temperature followed by extraction.

22 Claims, No Drawings